

**The analysis of climatic  
causes of anomalous precipitation  
in Huaihe Basin during the summer of 2003**

**NATIONAL CLIMATE CENTER**



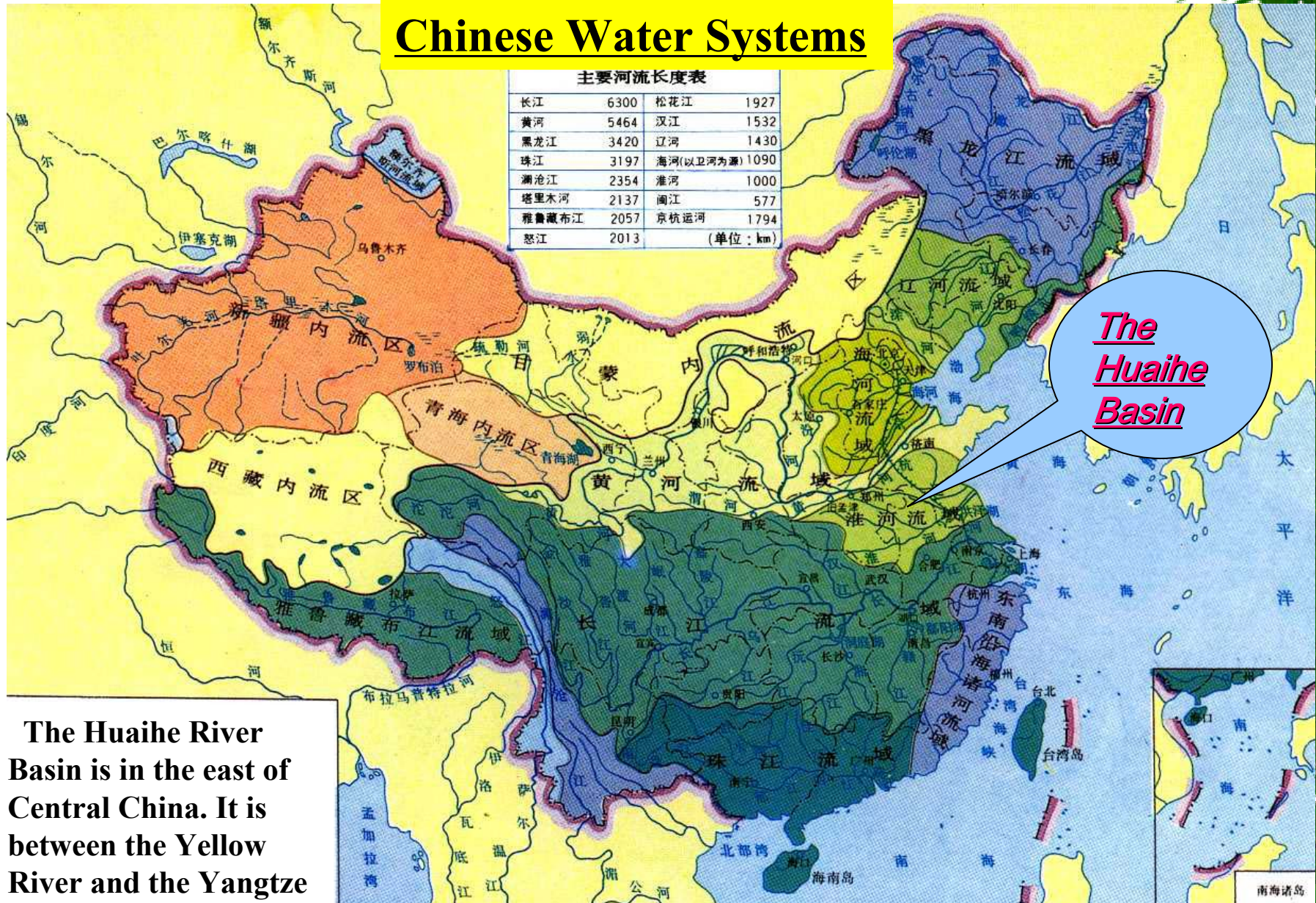
- ★ The average dekadal rainfall;
- ★ The SCS China Sea Summer Monsoon;
- ★ The Subtropical High In Northwest Pacific;
- ★ Circulation and the Blocking High in the middle –high Latitude .





# Chinese Water Systems

主要河流长度表			
长江	6300	松花江	1927
黄河	5464	汉江	1532
黑龙江	3420	辽河	1430
珠江	3197	海河(以卫河为源)	1090
澜沧江	2354	淮河	1000
塔里木河	2137	闽江	577
雅鲁藏布江	2057	京杭运河	1794
怒江	2013		(单位: km)



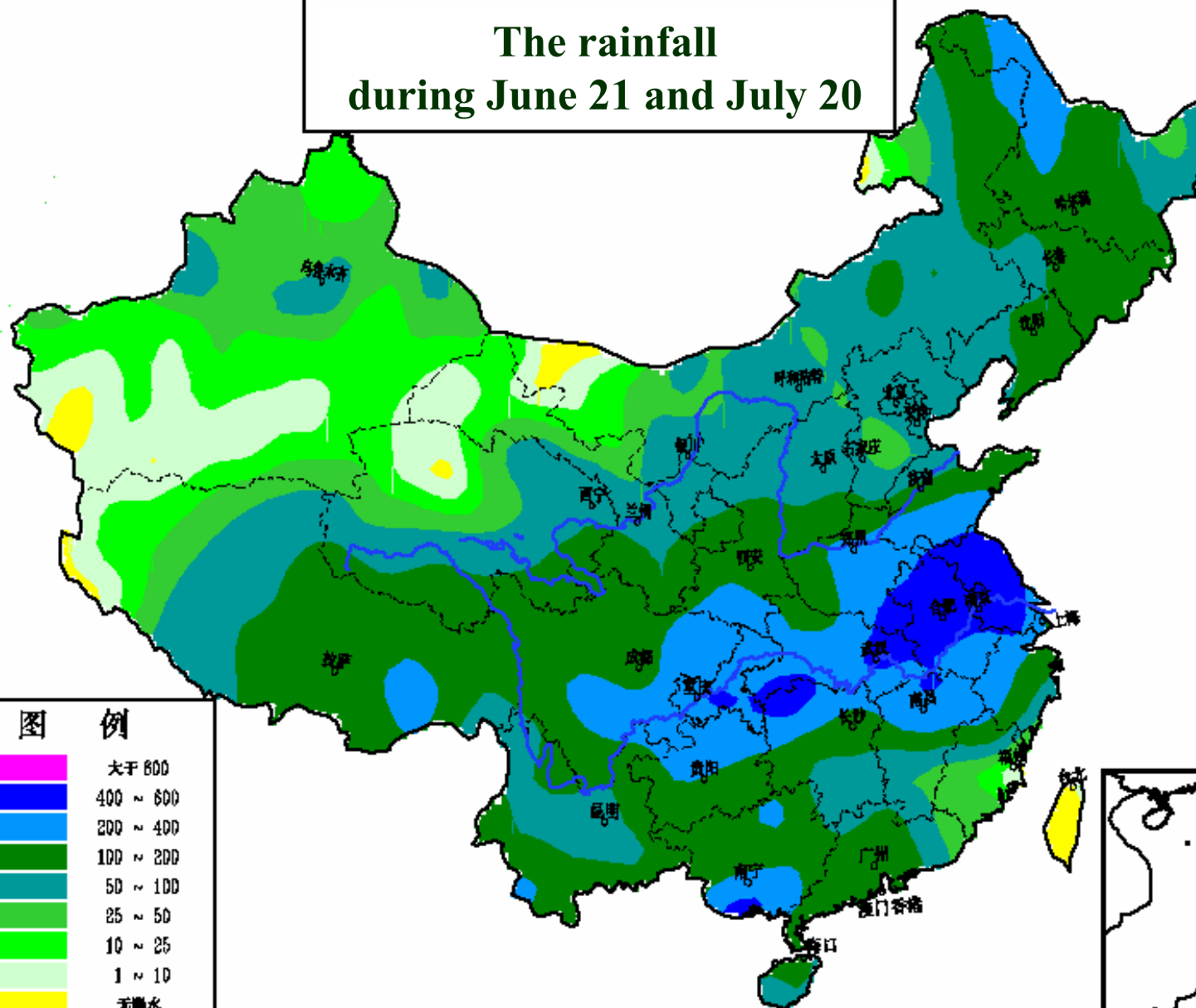
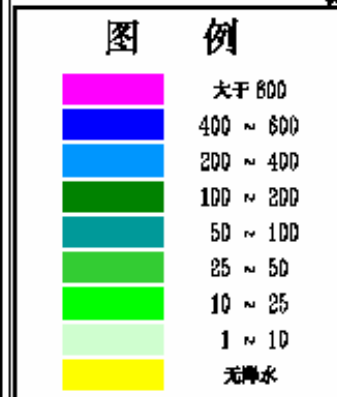
The Huaihe River Basin is in the east of Central China. It is between the Yellow River and the Yangtze River.



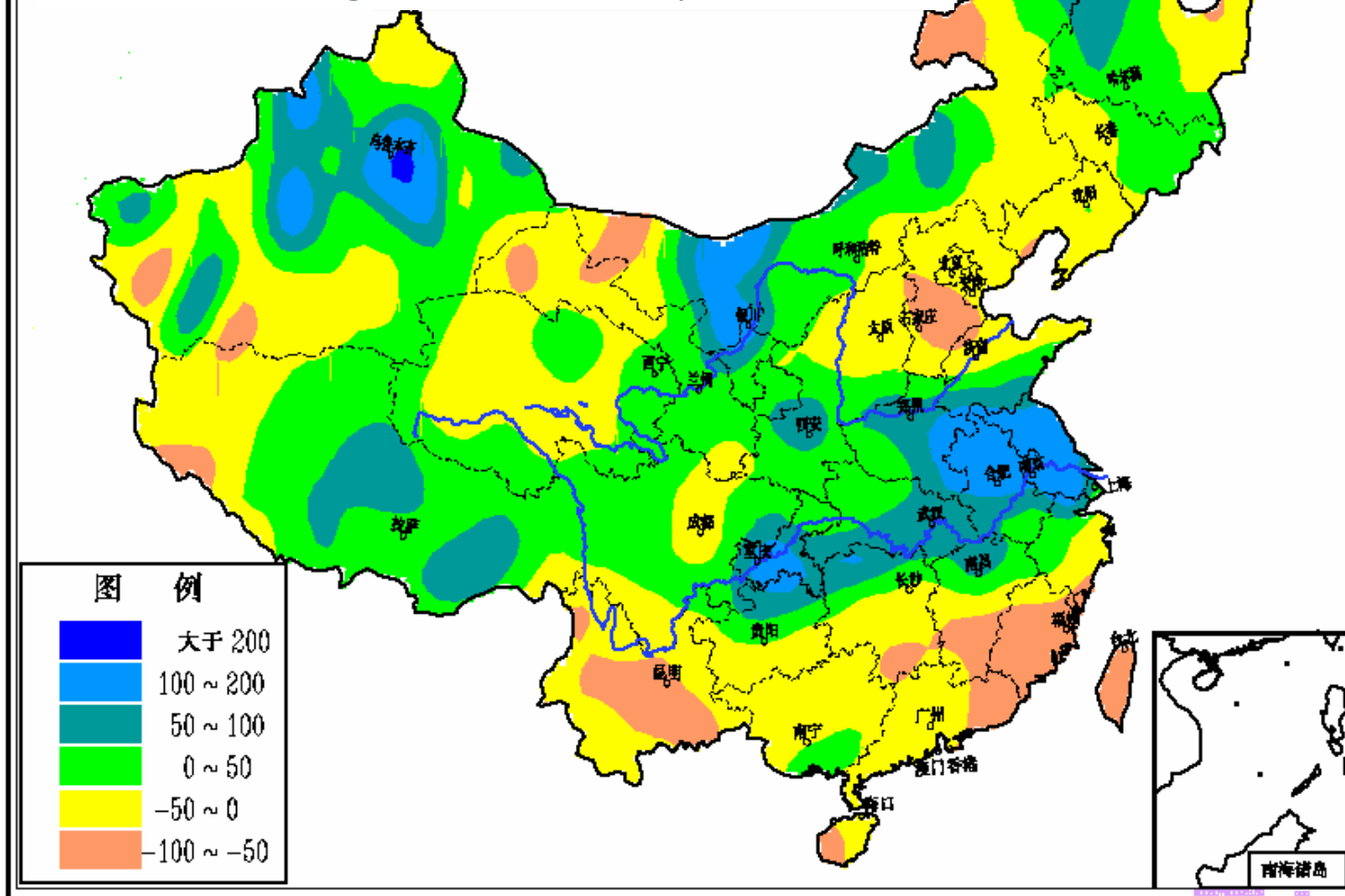


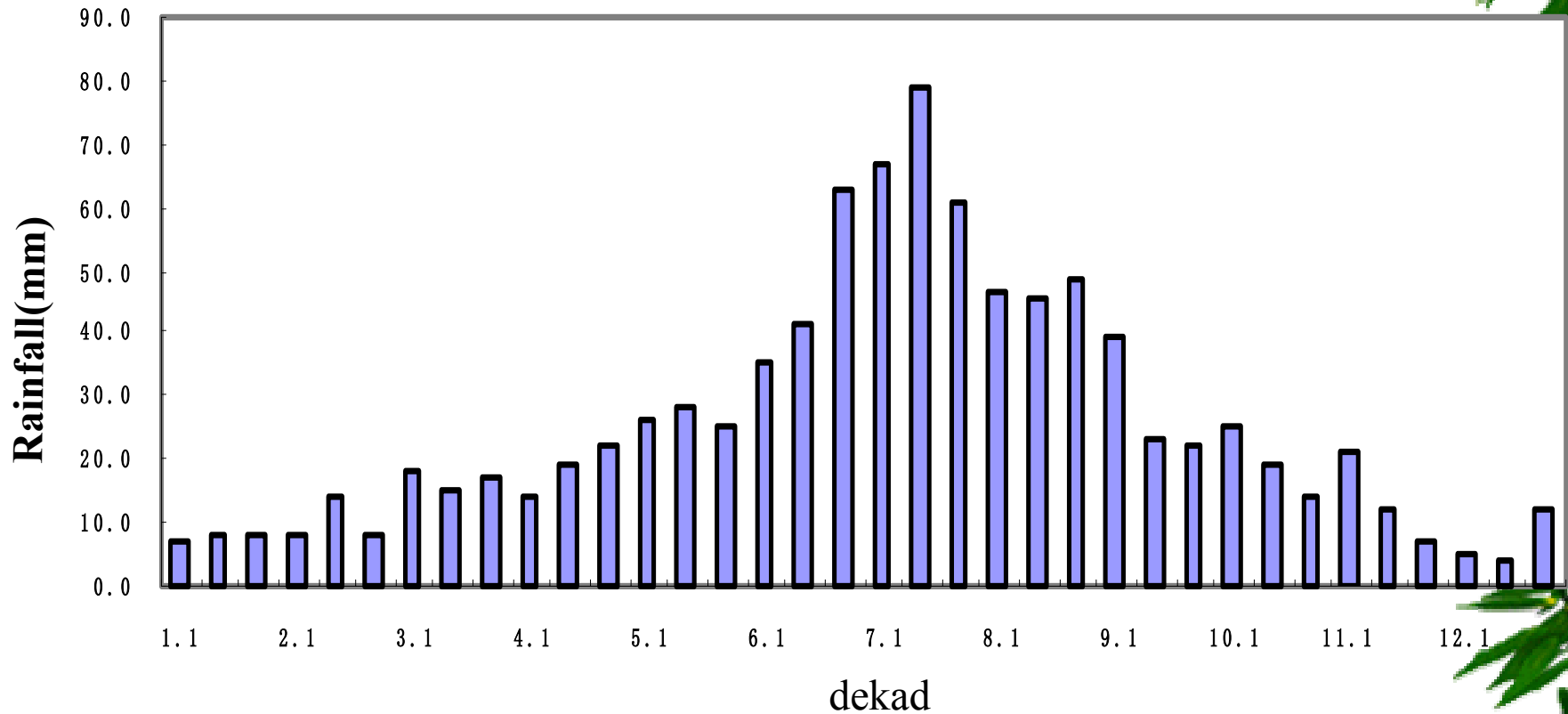
**The flood fatality in  
Huaihe Basin during the  
summer of 2003**

# The rainfall during June 21 and July 20

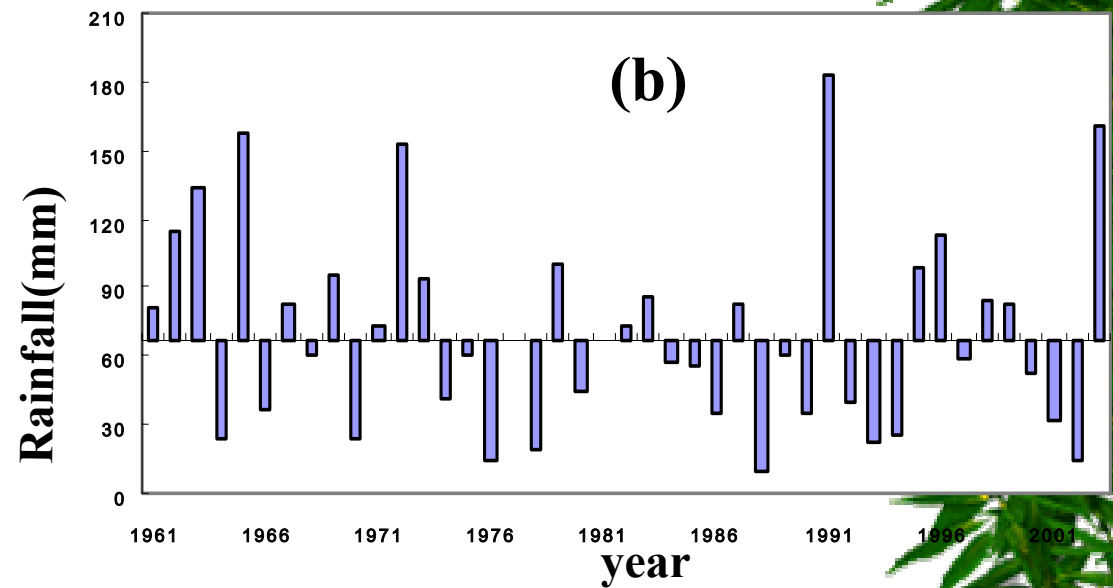
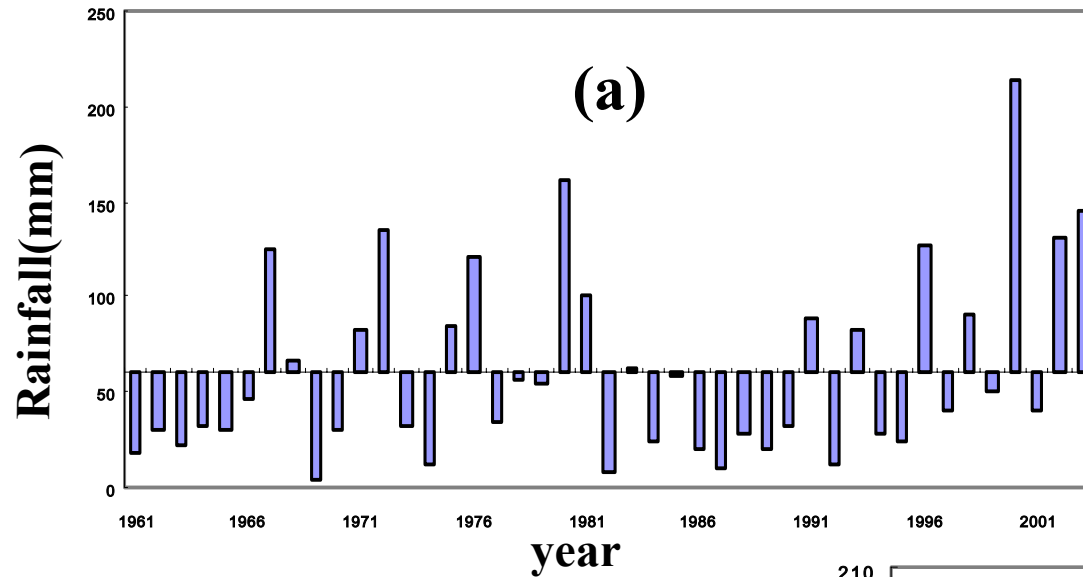


# The precipitation anomaly during June 21 and July 20





**The average dekadly rainfall  
in the Huaihe Basin (1971-2000)**

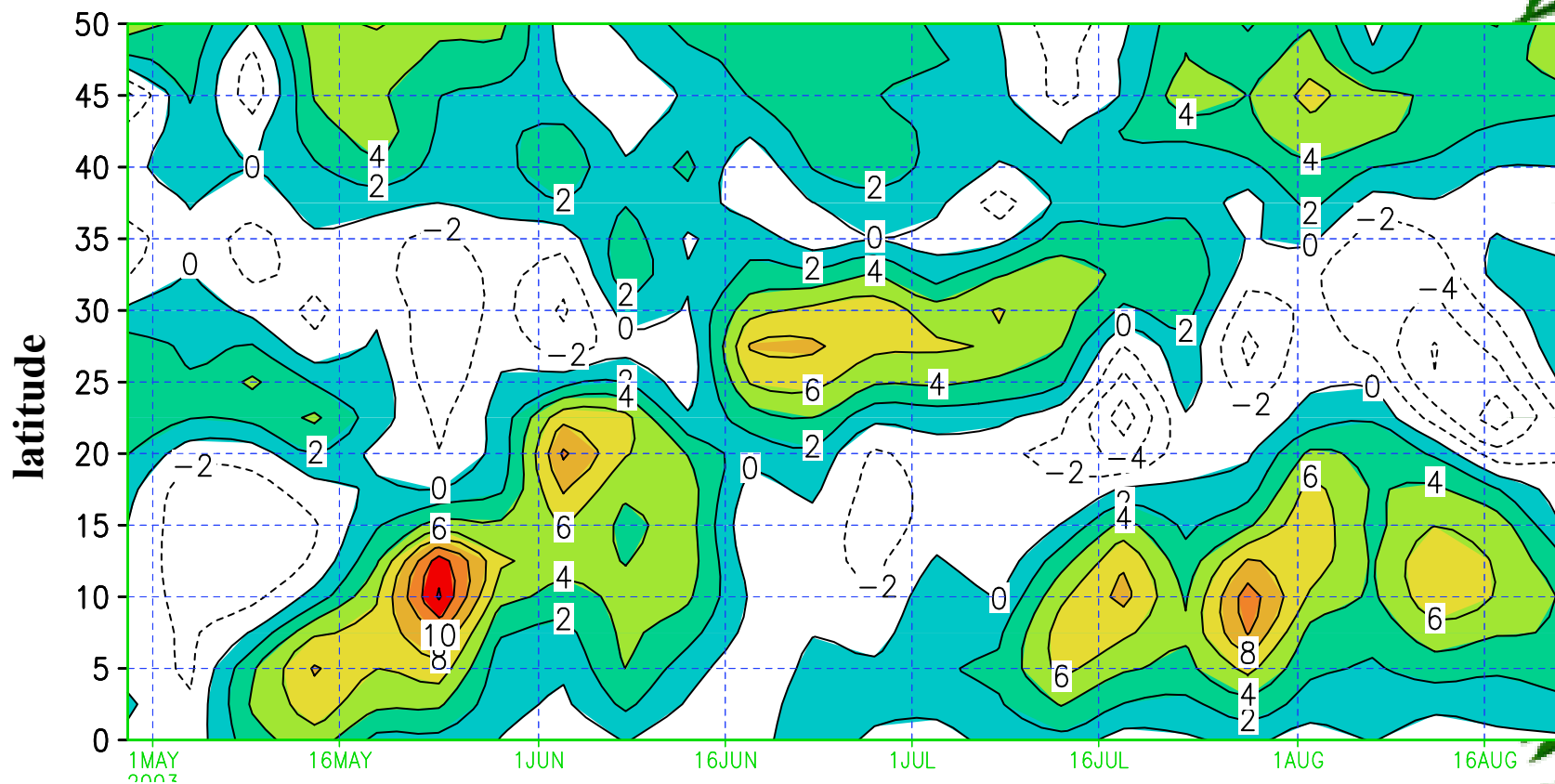


**The year-by-year dekadal rainfall in the last dekad of June(a) and the first dekad of July(b) from 1961 to 2003**



**The influence of South  
China Sea summer monsoon  
to the summer rainfall of China**



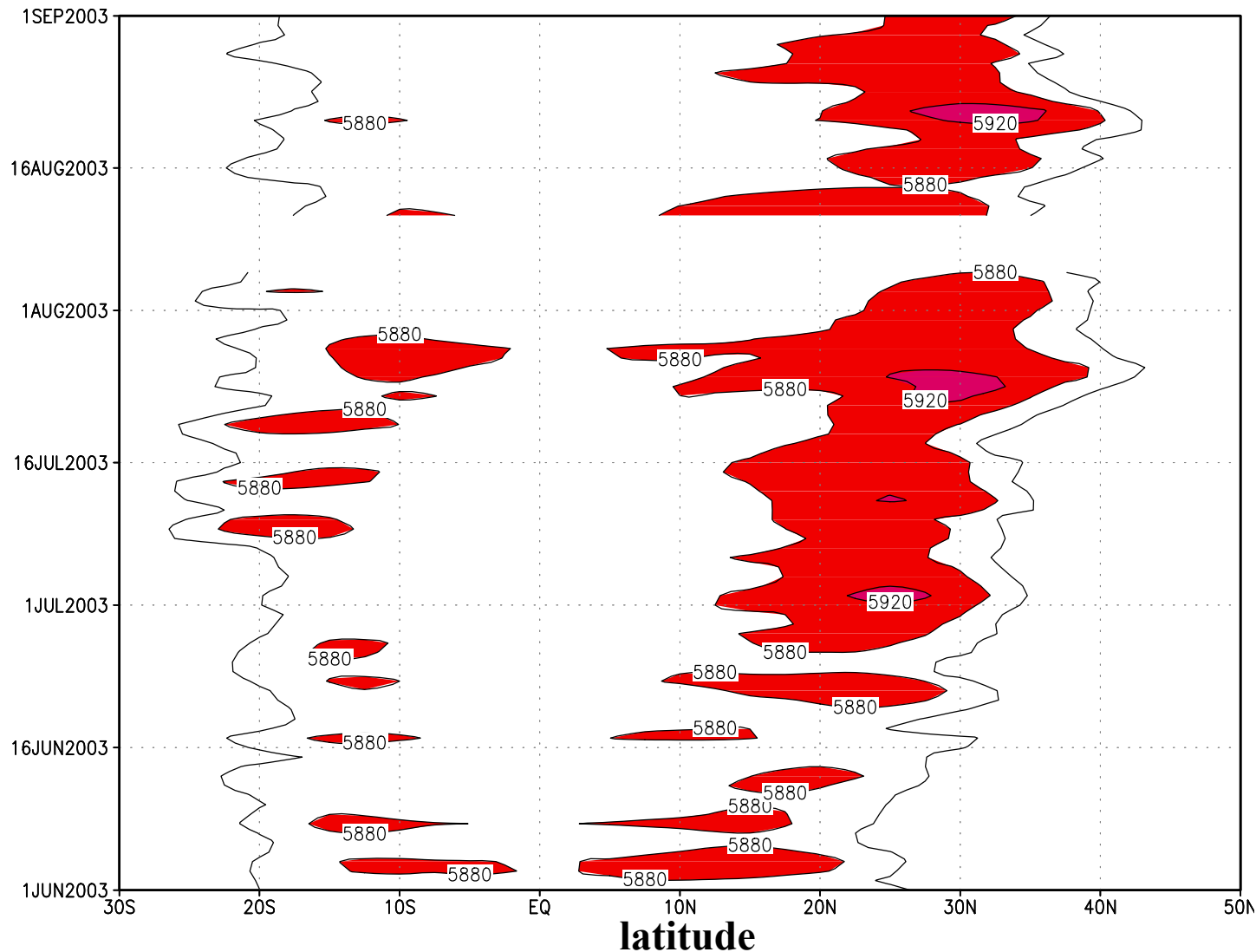


**time-latitude cross section of mean  
(110-120° E) zonal wind (Unit: m/s, May 1 to Aug. 31)**

# **The Characteristics Of The Subtropical High In Northwest Pacific**

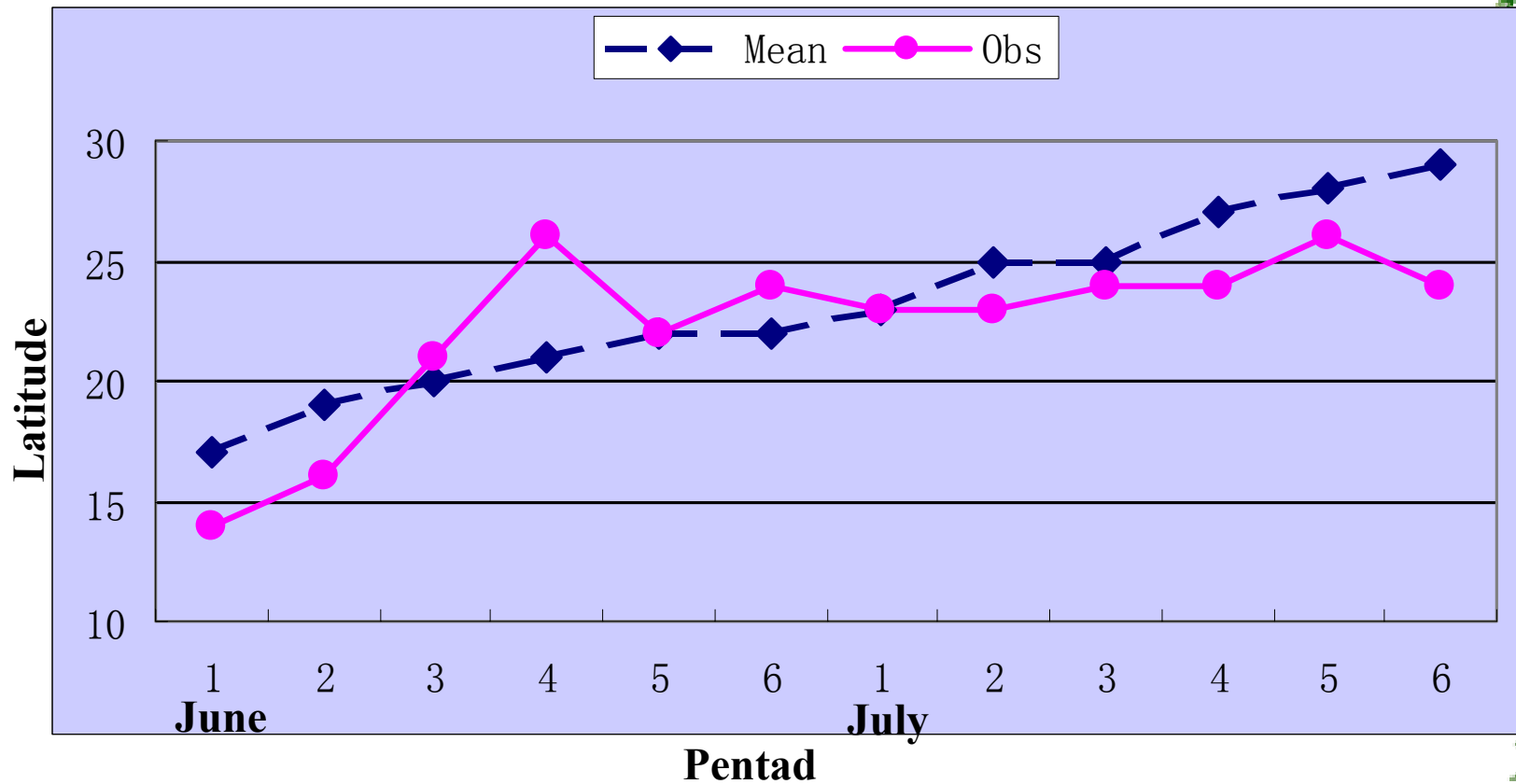


lon=110–130E



**Time-latitude cross section of mean(110-130 ° E)  
geopotential height on 500hPa from June 1 to August 31**





**the pentadally ridge line of  
subtropical high from June to July**

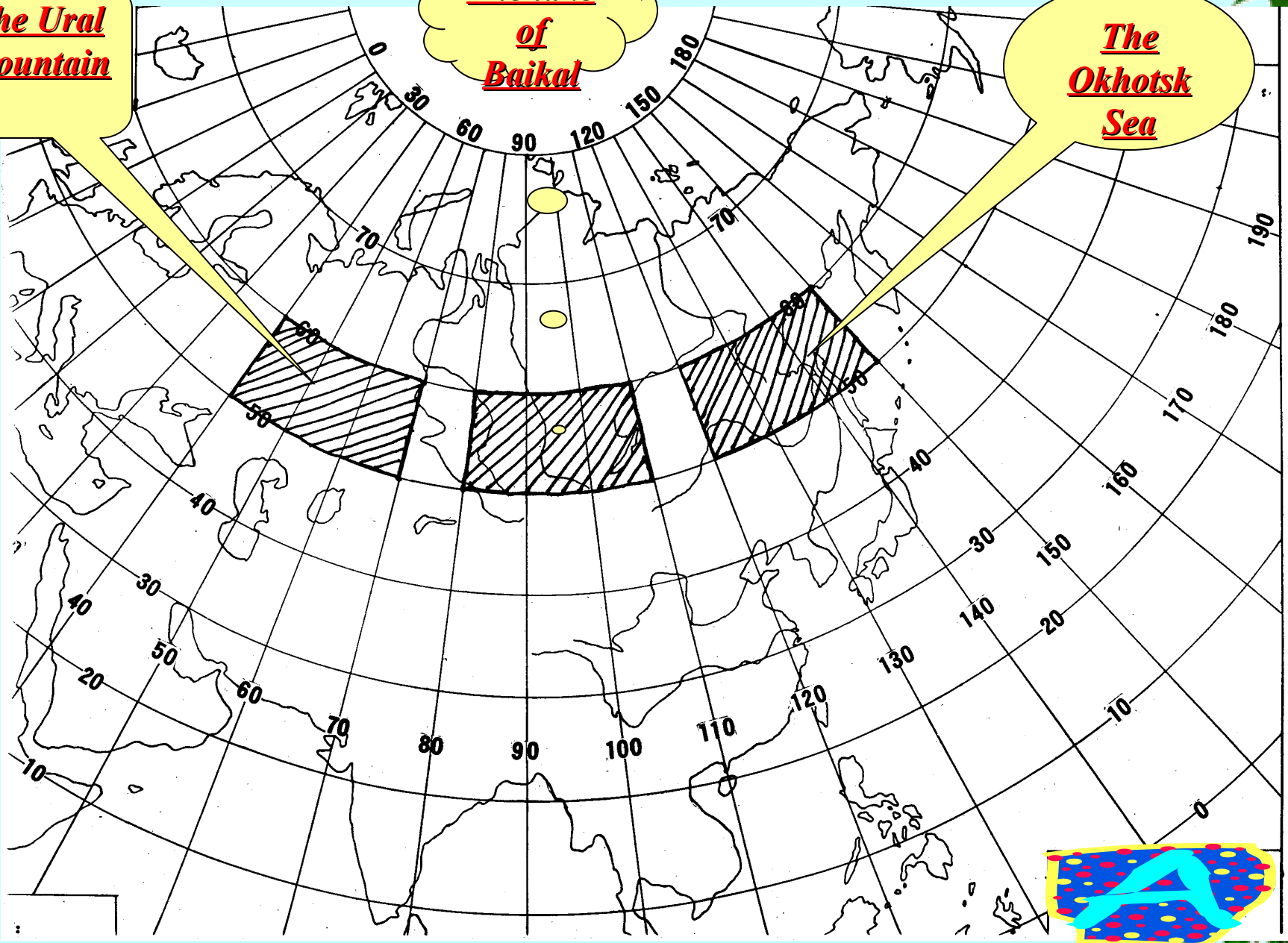
**Circulation and the blocking  
high in the middle –high latitudes**

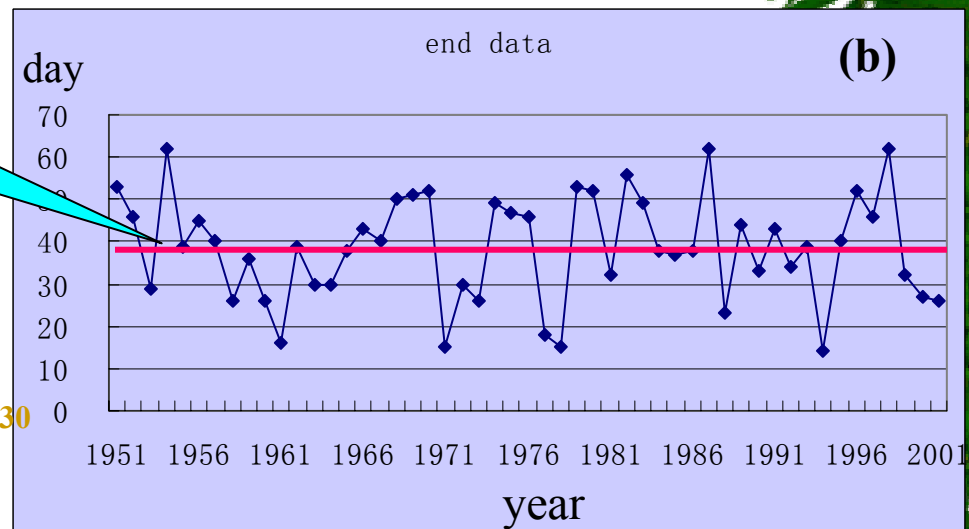
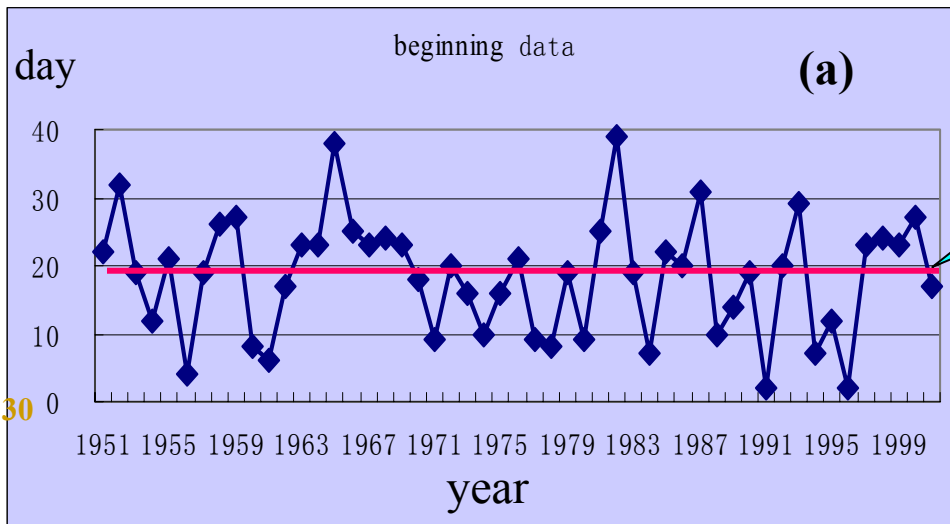


The Ural  
Mountain

The lake  
of  
Baikal

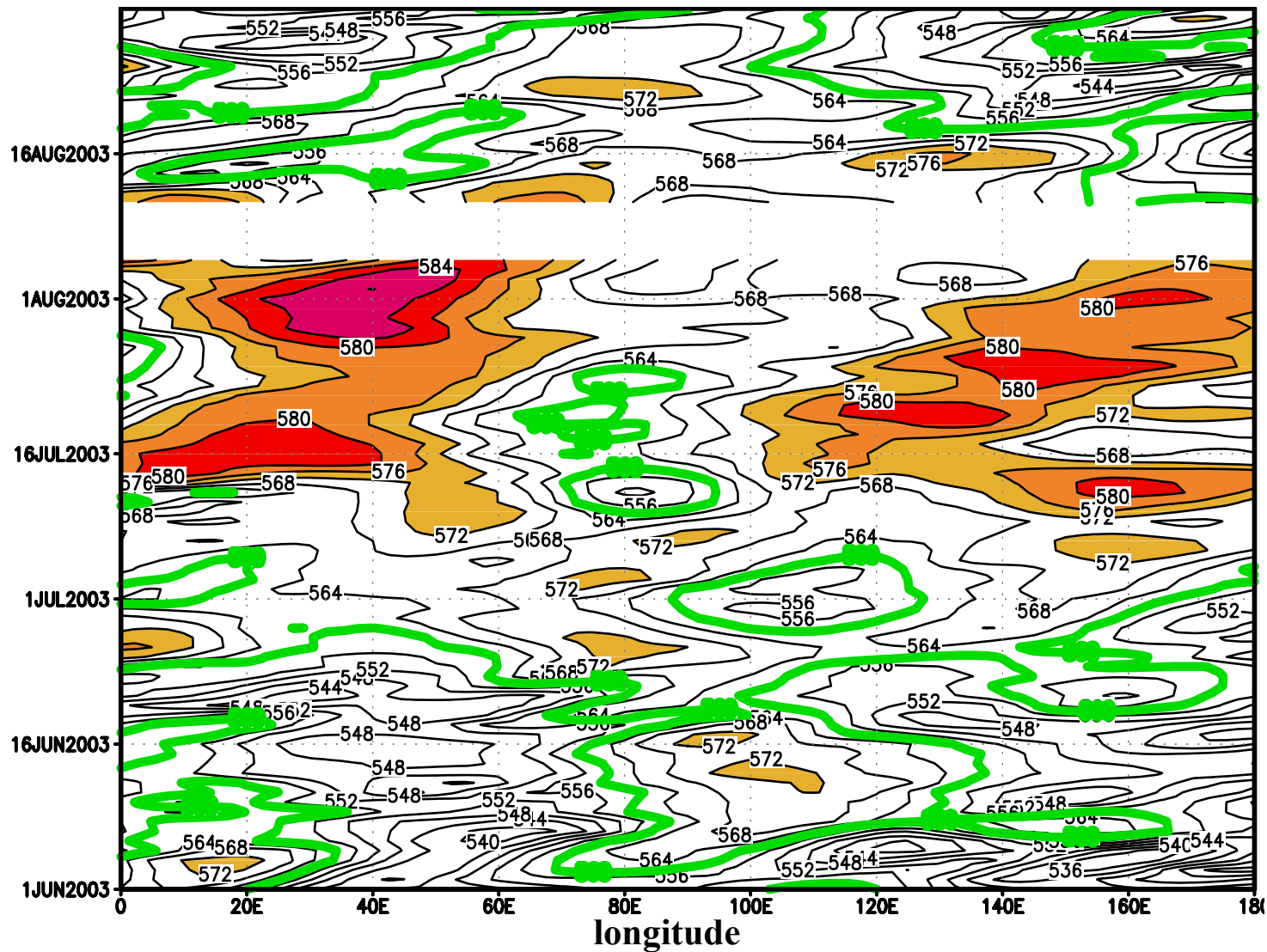
The  
Okhotsk  
Sea



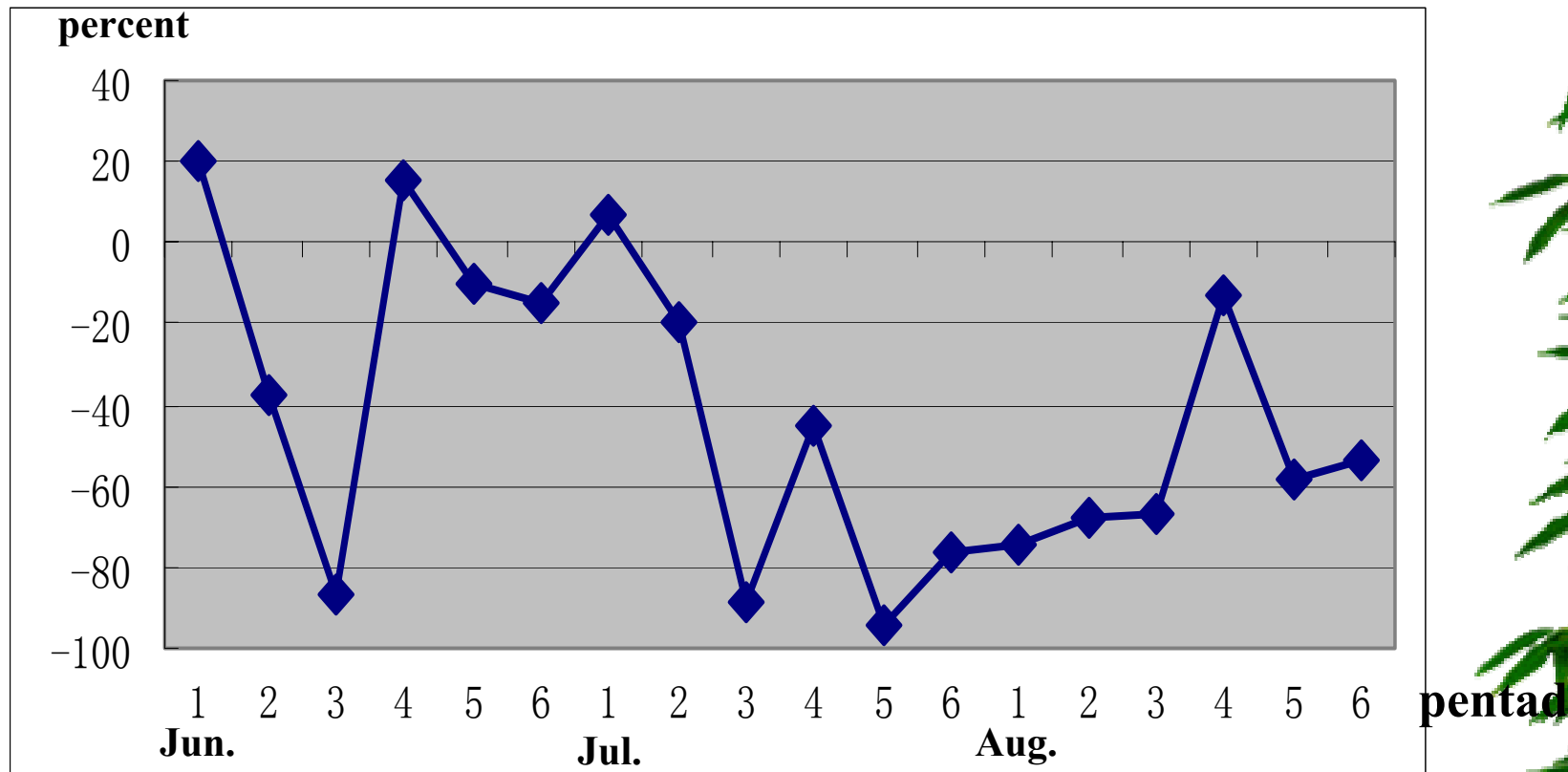


The data of beginning of Mei-yu period(a)  
and end of the Mei-yu period(b)





**longitude-time cross section of mean( $55 \sim 65^\circ$  N)  
geopotential height on 500hPa from June 1 to August 31.**



**Westerly circulation index  
of Pentad from June to August in Asia**

Thank You!

